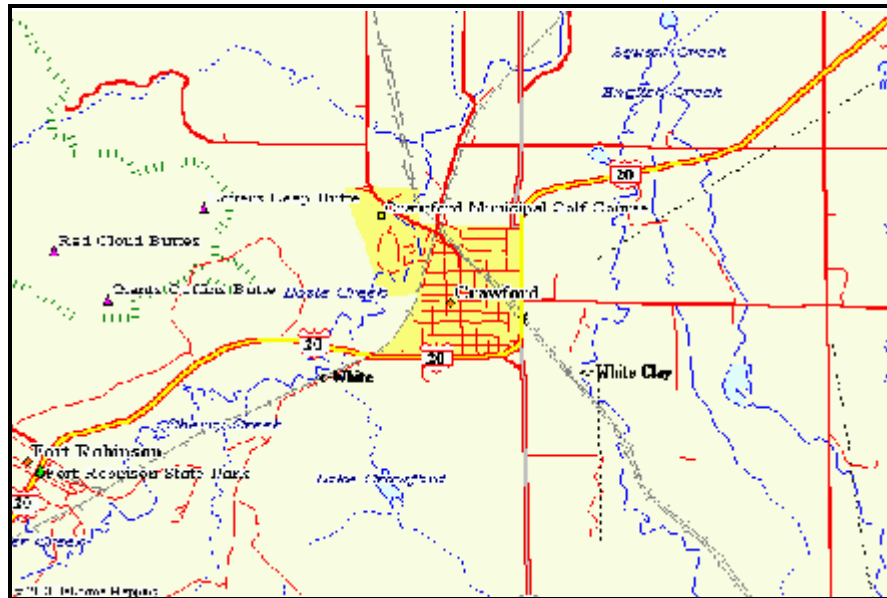


Hydrology case #4

- July 25, 1997
- Fairly quiet summer, so far, with near normal precipitation. Nothing out of the ordinary...
- Thunderstorms develop over eastern Wyoming and move into western and north-central Nebraska during the evening hours. So far 2 inches of rainfall has been observed at Fort Robinson near Crawford, NE in the past 1 hour. Looking at the 88D precipitation, thunderstorms can be expected for the next several hours before the storms die out. Rainfall has ended in Sioux County.



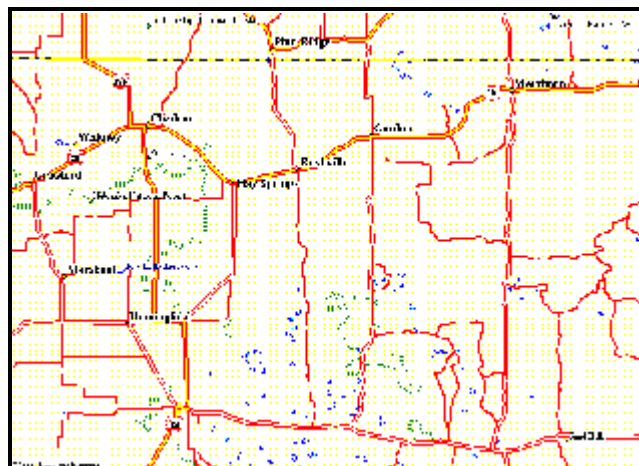
a) Using the MBRFC product MKCFFGNE what is the flash flood guidance for that area of Nebraska.

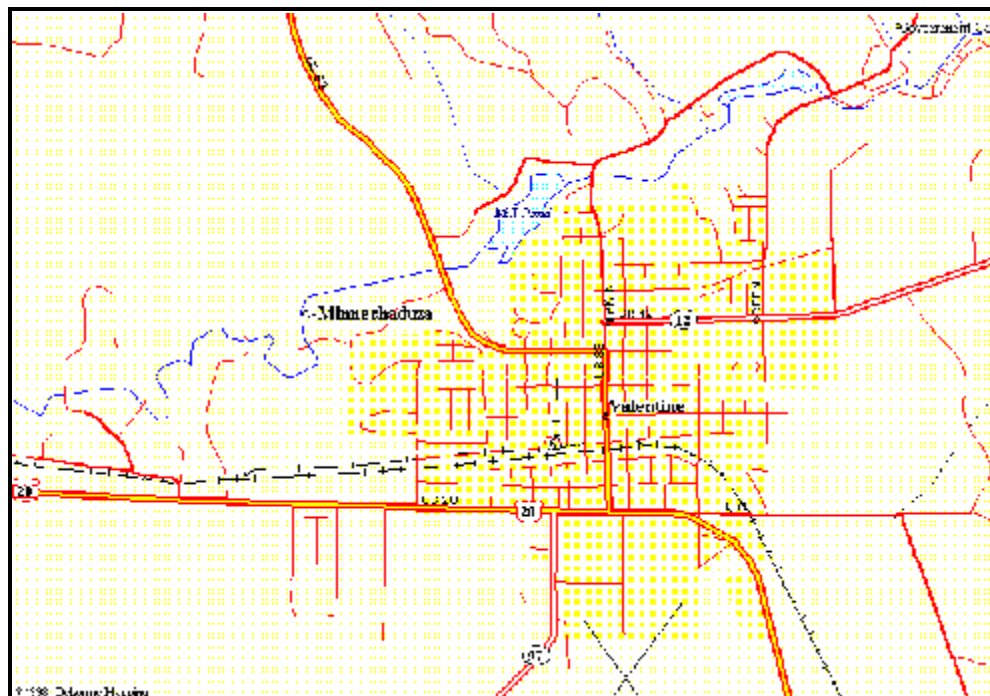
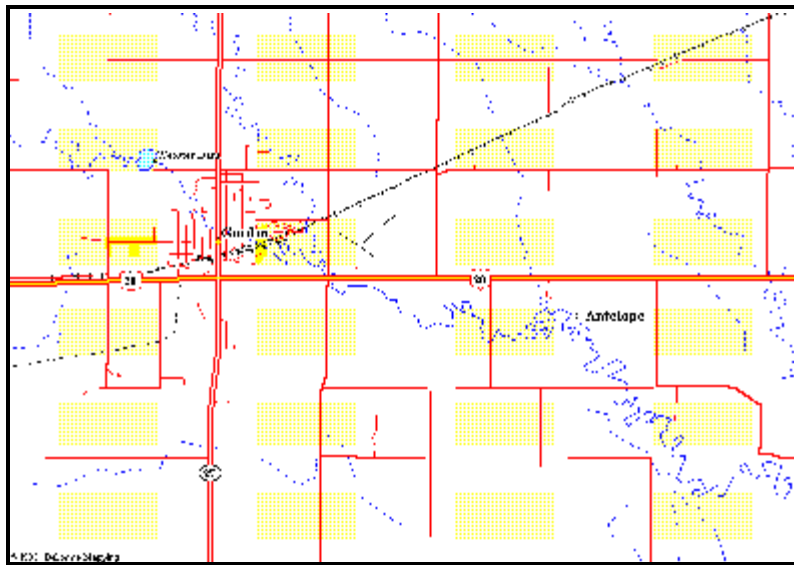
b) Based on conditions so far, and your best guess about how much precipitation could be expected before the thunderstorms move off to the east what would be your strategy?

1) Would you issued a flash flood warning? If so, for what area.

2) What areas might be affected (ie towns, rivers, streams)?

c) If you didn't issue a Flash Flood Warning, would you consider issuing an Urban and/or Small Stream Flood Advisory?





If the thunderstorms ultimately moved through an area south of Valentine, what would you do with regards to flooding? What is the basis for your reasoning? Is the MBRFC guidance reasonable for this area?